

TERM 8 - CLASS OF 2017 - Winter 2017

COMPLEMENTARY STUDIES

For graduation, you must also have passed the seven complementary studies courses with an average over these seven courses of at least 60%. If you have not already done so, please submit a [Complementary Studies Self Audit form.](#)

	Course #	Course Name	Instructor
ENGI	4102	Engineering Economics	Shekari, E
ENGI	8151	Technology, Sustainable Society and International Development	Hurley, S

TERM 8 - CLASS OF 2017 - Winter 2017**CIVIL**

Course #	Course Name	Instructor
	Required:	
ENGI 8152(004)	Engineering Professionalism II	Fisher/Spracklin-Reid
ENGI 8700	Civil Engineering Project - multiple sections	Bruneau, S/Skinner, J
ENGI 8740	Contract Law and Labour Relations	Wellon, R

Technical Electives - choose three electives in total**Choose up to 3 electives from:**

ENGI 8705	Structural Building Systems	Hussein A.
ENGI 8713	Municipal Engineering	Snelgrove, K
ENGI 8717	Environmental Assessment	Saady, N
ENGI 8751	Coastal and Ocean Engineering	Bruneau, S

Choose up to 2 electives from:

ENGI 8074	Arctic Ocean Engineering	Daley, C
ENGI 8676	Design of Natural Gas Handling Equipment	Aborig,A
ENGI 8670	Reliability Engineering	Khan, F/Thodi, P
ENGI 8673	Subsea Pipeline Engineering	Shiri, H
ENGI 8690	Reservoir Engineering	Aborig,A
ENGI 8992	Arctic Offshore Engineering	Taylor, R.

TERM 8 - CLASS OF 2017 - Winter 2017**COMPUTER**

Required:

ENGI	8152(002)	Engineering Professionalism II	Fisher/Spracklin-Reid
ENGI	8854	CoE Design Project	Czarnuch, S
ENGI	8894	RT Operating Sys / Embedded and RT Systems Design	Anderson, J.

Technical Electives (choose 2):

ENGI	7680	Supervisory Control and Data Acquisition	Masek, V.
ENGI	8814	Computer Vision	Shehata, M.
ENGI	8877	Wireless and Mobile Communications	TBA
ENGI	8821	Design of Digital Signal Processing Systems	Moloney, C
ENGI	8826	Filter Synthesis	Power, S
ENGI	8868	Computer and Communications Security	Heys, H
		Computer Science elective (must be approved by Department Head)	
ENGI	8103	Engineering in Medicine	Nakhla, S

Free Elective:

[approved by Department Head](#)**ELECTRICAL**

Required:

ENGI	8152(002)	Engineering Professionalism II	Fisher/Spracklin-Reid
ENGI	8853	EE Design Project	Liang, X
ENGI	8826	Filter Synthesis	Power, S

Technical Electives (choose 2):

ENGI	5865	Digital Systems	House, A
ENGI	7680	Supervisory Control and Data Acquisition	Masek, V.
ENGI	7811	Antennas	El-Darymli, K
ENGI	8814	Computer Vision	Shehata, M.
ENGI	8821	Design of Digital Signal Processing Systems	Moloney, C
ENGI	8877	Wireless and Mobile Communications	TBA
ENGI	8845	Power System Operation	Liang, X
ENGI	8103	Engineering in Medicine	Nakhla, S

Free Elective:

[approved by Department Head](#)

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MECHANICAL

Required:

ENGI	8152(001)	Engineering Professionalism II	Fisher/Spracklin-Reid
ENGI	8926	Mechanical Project II	Muzychka, Y

9 credit hours from Technical Stream Courses

Students may experience scheduling difficulties if courses are selected from more than one technical stream.

Mechanics and Materials

Choose Three from:

ENGI	8911	Corrosion and Corrosion Control	Shirokoff, J.
ENGI	8933	Fatigue and Fracture	Nasiri, A
ENGI	8937	Machine Dynamics	Yang, J
ENGI	8946	Modelling and Simulation of Dynamic Systems	Rideout G.
ENGI	8964	Fluid Structure Interaction	Hinchey, M
ENGI	8103	Engineering in Medicine	Nakhla, S
ENGI	8992	Arctic Offshore Engineering	Taylor, R.

Mechatronics

ENGI	8814	Computer Vision	Shehata, M.
ENGI	8937	Machine Dynamics	Yang, J
ENGI	8946	Modelling and Simulation of Dynamic Systems	Rideout G.
ENGI	8103	Engineering in Medicine	Nakhla, S

Petroleum Technical Stream

Choose Three from:

ENGI	8673	Subsea Pipeline Engineering	Shiri, H
ENGI	8676	Design of Natural Gas Handling Equipment	Aborig,A
ENGI	8690	Reservoir Engineering	Aborig, A
ENGI	8911	Corrosion and Corrosion Control	Shirokoff, J.
ENGI	8694/96	Petroleum Refining & Downstream Processing	Aborig, A
ENGI	8964	Fluid Structure Interaction	Hinchey, M
ENGI	8992	Arctic Offshore Engineering	Taylor, R.

Thermo Fluids

Choose Three from:

ENGI	8903	Mechanical Systems	Deghani, S
ENGI	8947	Computational Fluid Dynamics	Hookey N.
ENGI	8964	Fluid Structure Interaction	Hinchey, M
ENGI	8984	Sustainable Energy Systems	Pope, K

One free elective which must be a 3000-level or higher Engineering Course or a 2000-level or higher university course.

Selection of a course must be approved by the Head of the Department of Mechanical Engineering.

ENGI	8103	Engineering in Medicine	Nakhla, S
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ONAE

Required:

ENGI	8152(005)	Engineering Professionalism II	Fisher/Spracklin-Reid
ENGI	8000	ONAE Project	Veitch, B
Phys	3300	Introductin to Physical Oceanography	

Technical Electives (choose 2):

ENGI	8054	Advanced Marine Vehicles	Molyneux, D
ENGI	8058	Submersibles Design	Bachmayer, R
ENGI	8074	Arctic Ocean Engineering	Daley, C
ENGI	8075	Finite Element Analysis of Marine Structures	Quinton, B
ENGI	8670	Reliability Engineering	Khan, F/Thodi, P
ENGI	8673	Subsea Pipeline Engineering	Shiri, H
ENGI	8150	Engineering Entrepreneurship	Fisher/Goossens

Other courses with permission from the Department Head

Focus Stream Elective.

PROCESS

ENGI	8152(003)	Engineering Professionalism II	Fisher/Spracklin-Reid
ENGI	8640	Process Engineering Project	James, L

Process Technical Stream

ENGI	7651	Industrial Pollution Control	Zhang, Yahui
ENGI	7691	Mineral and Metallurgical Process Engineering	Zhang, Yahui

Choose one of:

ENGI	8670	Reliability Engineering	Khan, F/Thodi, P
ENGI	8694	Petroleum Refining & Downstream Processing	Aborig, A
ENGI	8911	Corrosion and Corrosion Control	Shirokoff, J.

Petroleum Technical Stream

ENGI	8690	Reservoir Engineering	Aborig, A
ENGI	8694/8696	Petroleum Refining & Downstream Processing	Aborig, A

Choose one of:

ENGI	8670	Reliability Engineering	Khan, F/Thodi, P
ENGI	8676	Design of Natural Gas Handling Equipment	Aborig,A

One Free Elective

one free elective which must be a 5000-level or higher Engineering course, or a 2000-level or higher course either from the Faculty of Arts or the Faculty of Science or a 3000-level or higher course from the Faculty of Business Administration. Selection of a course must be approved by the Department Head.